

# Rachel Wax

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## Work Experience

**R&D Mechanical Engineer at Proton Onsite** *September 2011 - Present*  
**Proton Onsite is R&D and manufacturer of hydrogen generation systems**

*Design, build, and test of electrochemical cell stack components*  
*Assembly analyses using lab equipment and FEA*  
*Manufacturing and production supports*  
*Evaluation of component and process suppliers*  
*Drawing preparation for part and system fabrication with GD&T*  
*Internal Auditor for company processes*

**Language and Cultural Assistant** *October 2010-June 2011*  
*Spanish Consulate, Huelva, Spain*  
Increased bilingual capabilities. Taught students English and American culture.

**Intern at solar energy company** *Summer 2009*  
*Mercury Solar Systems, Port Chester, New York*  
Worked with engineers to design photovoltaic solar systems for residential and commercial buildings

**Intern at North American Airlines** *Winter 2007*  
*North American Airlines, New York*  
Worked with engineers to revise mechanic installation instructions and safety pamphlets

## Academic Projects

**Mechanism Design & Analysis of Motion & Energy Project**  
*Designed a bicycle mechanism for generating electricity (think Gilligan's Island!)*

**Mechanism Design & Analysis of Motion & Stress Project**  
Dynamic stress and strain analysis on an F16 landing gear. Used Pro/Engineer, engineering concepts and creativity to effectively design parts for the higher assembly.

## Activities

**Professional Member of Engineers Without Borders** *2013-Present*

**Volunteer at World Science Festival** *2010, 2012*

**Co-Founder of Binghamton's Women Engineering Sorority**  
**Alpha Omega Epsilon** *2007-2010*

**Community Service and Fundraising Chair for Sorority** *2007-2009*

**Engineers Without Borders** *2007-2010*

## Personal

Significant international travel, Basic welding skills, Exposure to machine shops, Proficient in Pro/Engineer, ProMechanica, AutoCAD, Matlab, LabVIEW, MS Word, PowerPoint, Excel, Semi Fluent in Spanish

## Education

**Binghamton University, State University of New York**  
Watson School of Engineering  
B.S. Mechanical Engineering May 2010  
Scarsdale High School 2006